



Wood Environment & Infrastructure Solutions, Inc  
 200 American Metro Blvd., Suite 113  
 Hamilton, NJ 08619  
 Phone: (609) 689-2829 Fax: (609) 689-2838

## LETTER OF TRANSMITTAL

<b>TO:</b> Allan Williams Highland Park Environmental Commission  <b>FROM:</b> John Poserina, Project Manager	<b>DATE:</b> 09/27/2018  <b>PROJECT NO.:</b> 3480180606 <b>PROJ. NAME:</b> Honeywell Highland Park <b>SUBJECT:</b> Construction Air Monitoring Data for week of 082718 to 083118 Former Midland Ross Facility, SRP PI#018773 Highland Park, New Jersey
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WE TRANSMIT TO YOU:                       HEREWITH                       UNDER SEPARATE COVER

**SUBJECT:**

- DRAWINGS
- SPECIFICATIONS
- CALCULATIONS
- REPORT
- COST ESTIMATE
- AS NOTED

**ACTION:**

- FOR YOUR INFORMATION
- FOR YOUR COMMENT OR APPROVAL
- RETURNED FOR CORRECTION: RESUBMIT
- APPROVED AS NOTED
- AS REQUESTED

**SENT BY:**

- MAIL
- CERTIFIED MAIL
- EXPRESS **Federal Express**
- COURIER
- HAND DELIVERED
- FACSIMILE:

31 pages (including transmittal sheet)

COPIES	DATE	DESCRIPTION
1	08/31/18	Construction Air Monitoring Data

**REMARKS:**

The following data package includes the following from the week of 082718 to 083118

- Map displaying Air Monitoring Station locations
- Dust Monitoring Results
- Laboratory Air Sample Results

Note: No air monitoring on 083118 due to rain

**CC:** Maria Kaouris - Honeywell  
Jorge Berkowitz, Ph.D, LSRP - Langan  
Kay Licausi  
 \_\_\_\_\_  
 \_\_\_\_\_

**By:** John Poserina, P.E.  
  
 Direct Phone: (609) 631-2923

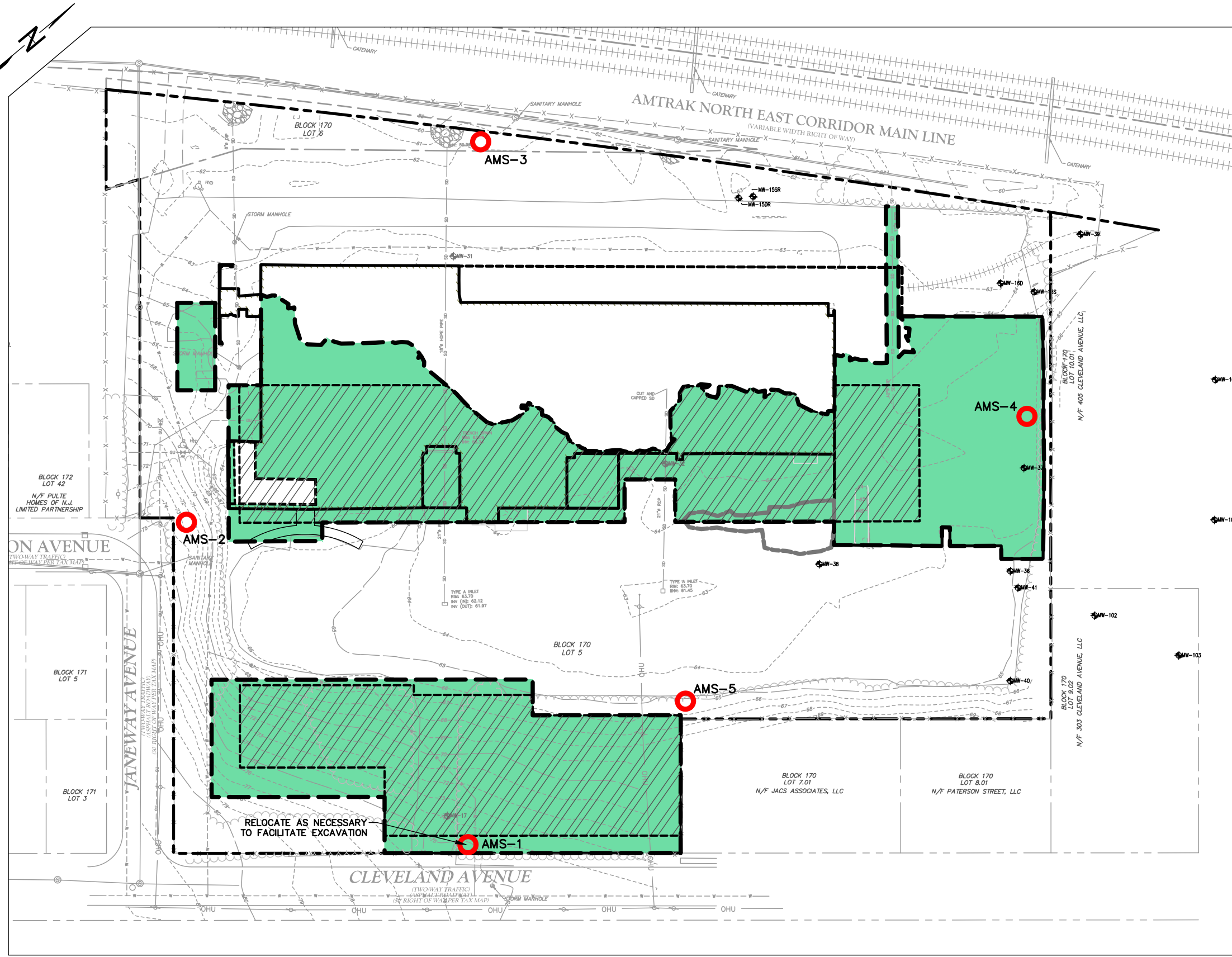
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If transmission is not received in good order, please call Project Coordinator at (610) 828-8100.

# **AIR MONITORING STATION LOCATIONS**

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**LEGEND:**

- PROPERTY BOUNDARY (FORMER MIDLAND-ROSS FACILITY)
- PROPOSED EXCAVATION AREA (AOC MR-8)
- FORMER JANEWAY-CARPENTER BUILDING CONCRETE SLAB REMOVAL AREA
- AMS-1 PROPOSED AIR MONITORING STATION LOCATION



SOURCE MAP REFERENCE:  
DRAWING TITLED "TOPOGRAPHIC SURVEY, BLOCK 170, LOTS 5 & 6, BOROUGH OF HIGHLAND PARK, COUNTY OF MIDDLESEX, STATE OF NEW JERSEY" DATED 1/9/2017 BY MASER CONSULTING P.A., MOUNT ARLINGTON, NEW JERSEY, PROJECT NUMBER 16001990A

REV.	DATE	STATUS	PRPD BY	CHKD BY

WOOD PROJECT No. 3480170577  
DRAWING: 3480170577-5200-RA00-0000

PREPARED/DATE:  
VMW 09/29/17

CHECKED/DATE:  
US 09/29/17

**wood.**

**ENVIRONMENT & INFRASTRUCTURE SOLUTIONS**  
200 AMERICAN METRO BLVD, SUITE 113  
HAMILTON, NEW JERSEY 08619

**FIGURE 1**  
PROPOSED PERIMETER AIR MONITORING STATION LOCATION  
HONEYWELL - FORMER MIDLAND-ROSS SITE  
HIGHLAND PARK, NEW JERSEY

**QUICK REFERENCE ACTION RESPONSE  
TABLE FROM PERIMETER AIR  
MONITORING PLAN**

Quick Reference Action Response Plan  
Former Midland Ross Facility  
Highland Park, NJ

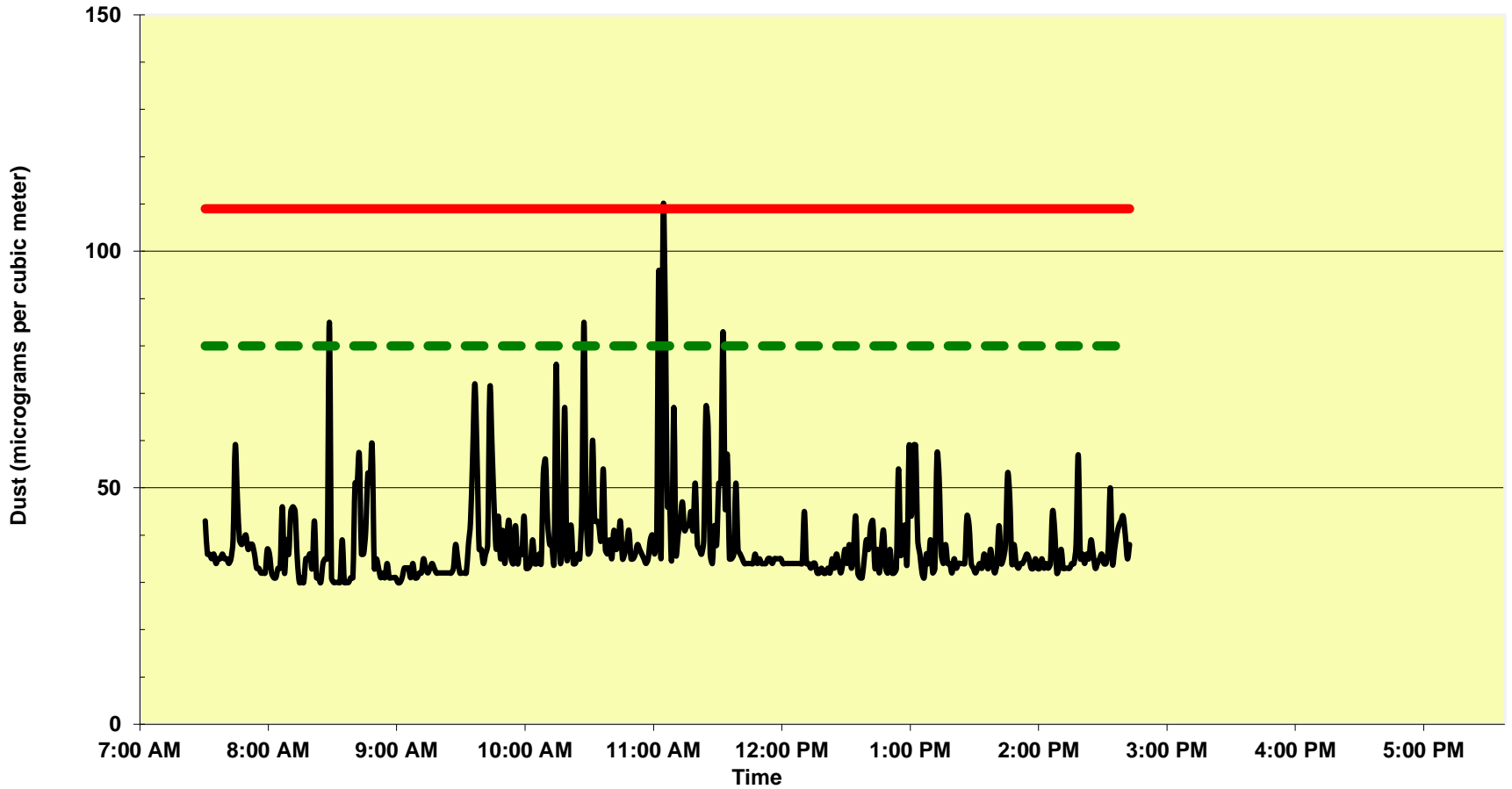
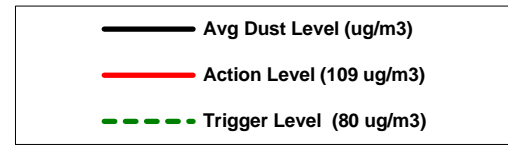
**Quick Reference Action Response Plan**

Acute Dust <sub>PM-10</sub> Action Level	Action/Procedure
≥ 109 ug/m <sup>3</sup> + Background (duration of <b>less</b> than 5 minutes)	<ul style="list-style-type: none"> <li>• The PAMPT will observe PM-10 concentrations at the location of the exceedance. Make notification to SHSO. The PAMT and SHSO will attempt to identify the source of the PM-10 emissions. The SHSO will make preparations to address the source.</li> <li>• Continue to observe PM-10 emissions.</li> </ul>
≥ 109 ug/m <sup>3</sup> + Background (duration of <b>more</b> than 5 minutes)	<ul style="list-style-type: none"> <li>• Document the time and PM-10 level within the air monitoring log or field log book. Prepare to collect confirmatory sample.</li> <li>• Implement use of engineering control measures if PM is sustained above 109 ug/m<sup>3</sup> for more than 5 minutes.</li> <li>• Continue to observe PM-10 emissions.</li> </ul>
≥ 109 ug/m <sup>3</sup> + Background (duration of <b>more</b> than 15 minutes)	<ul style="list-style-type: none"> <li>• Cease intrusive activities. Document the time and PM-10 level within the air monitoring log or field log book.</li> <li>• Collect confirmatory sample.</li> <li>• Re-evaluate work procedures and amend as appropriate. Continue monitoring and engineering control measures.</li> <li>• When PM-10 concentration falls below the Action Level (15 minute TWA), work may resume.</li> </ul>
Visible dust	<ul style="list-style-type: none"> <li>• Implement dust suppression measures (discretion of the PAMT).</li> </ul>

## **CONSTRUCTION AIR MONITORING DATA**

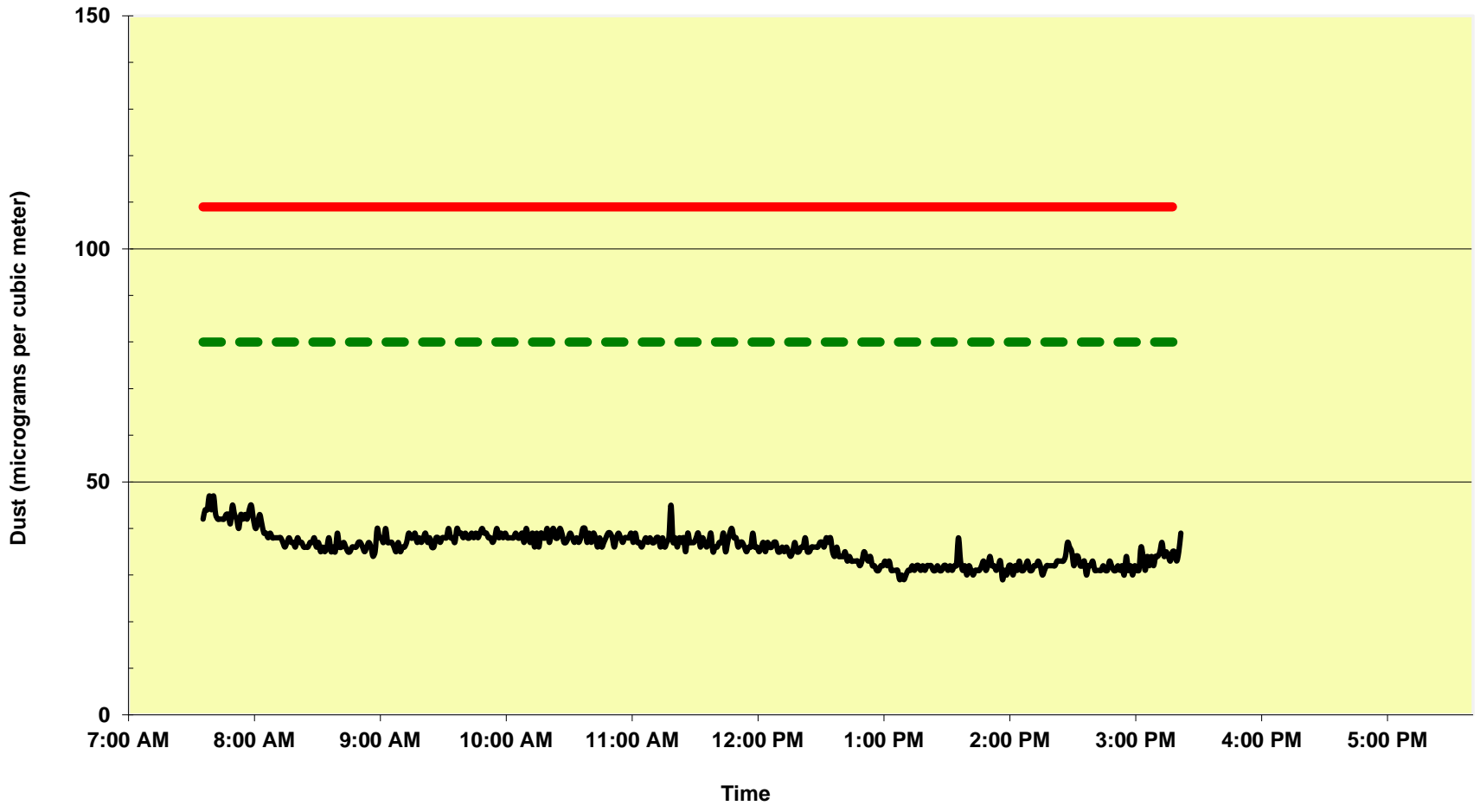
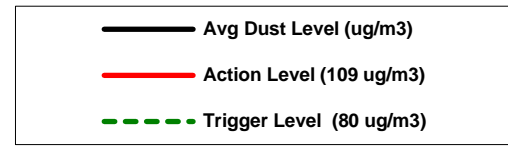
**Former Midland-Ross Site  
Highland Park, New Jersey  
Dust Monitoring Results  
Air Monitor 1 8/27/2018**

**Air Monitoring Results**



**Former Midland-Ross Site  
Highland Park, New Jersey  
Dust Monitoring Results  
Air Monitor 2 8/27/2018**

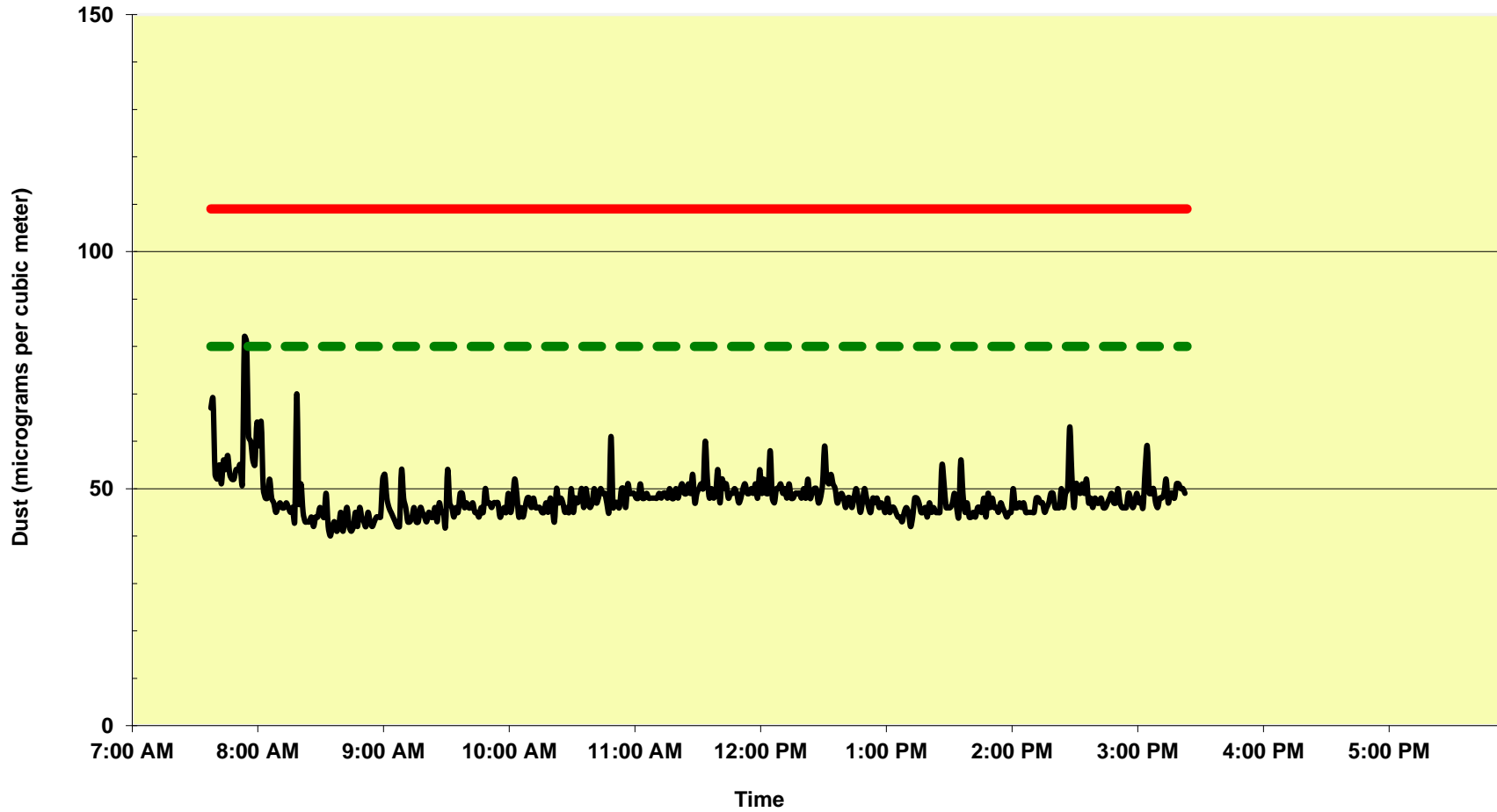
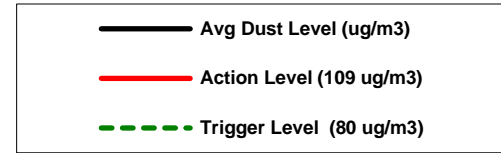
**Air Monitoring Results**





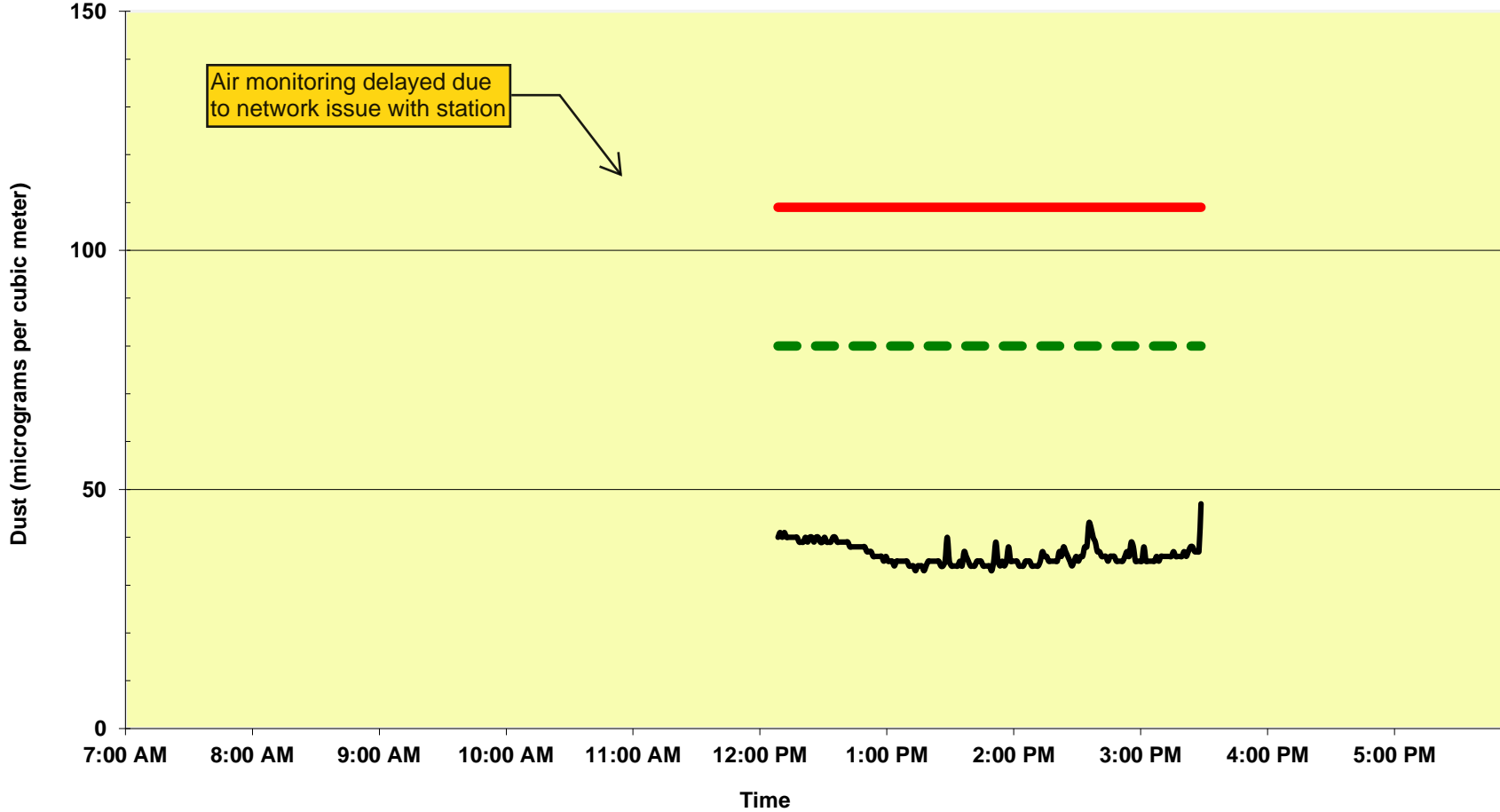
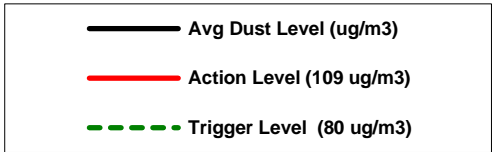
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**Air Monitoring Results**



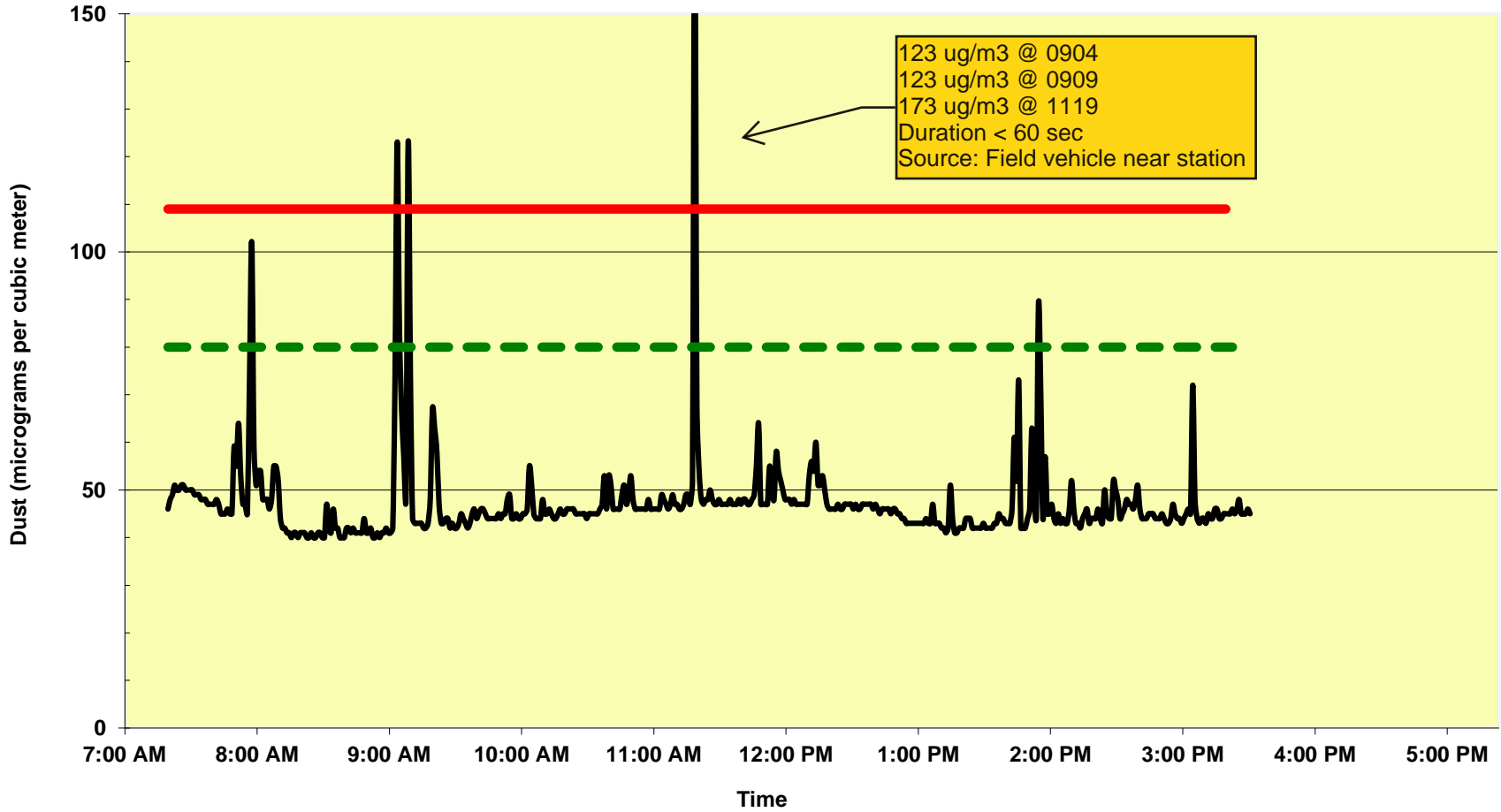
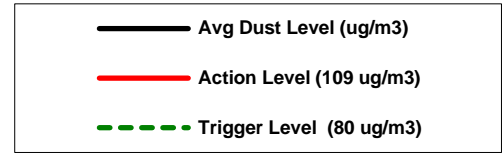
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Dust Monitoring Results  
Air Monitor 4 8/27/2018**

**Air Monitoring Results**



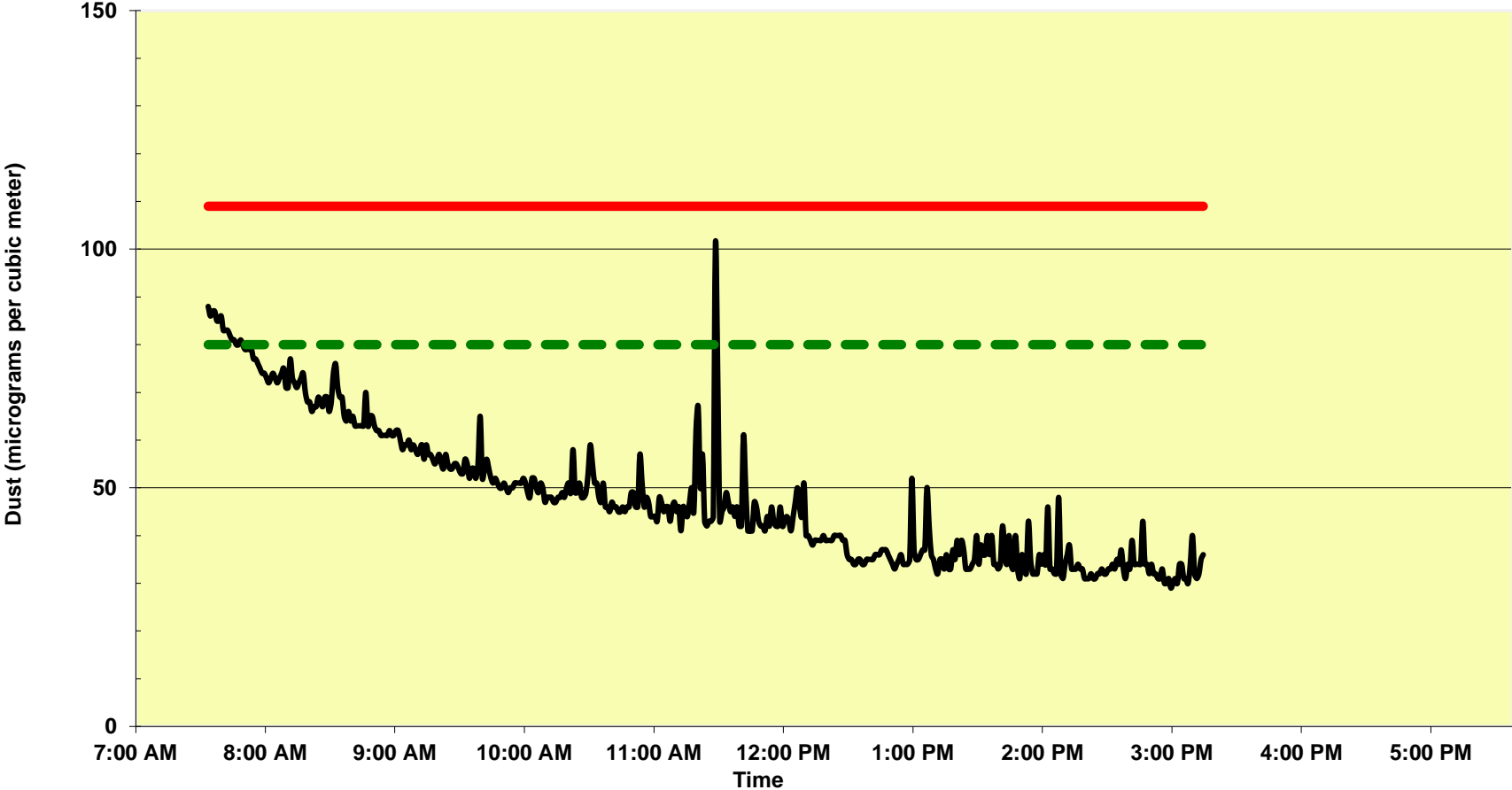
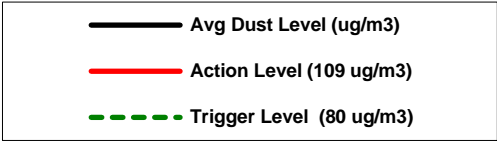
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Dust Monitoring Results  
Air Monitor 5 8/27/2018**

**Air Monitoring Results**



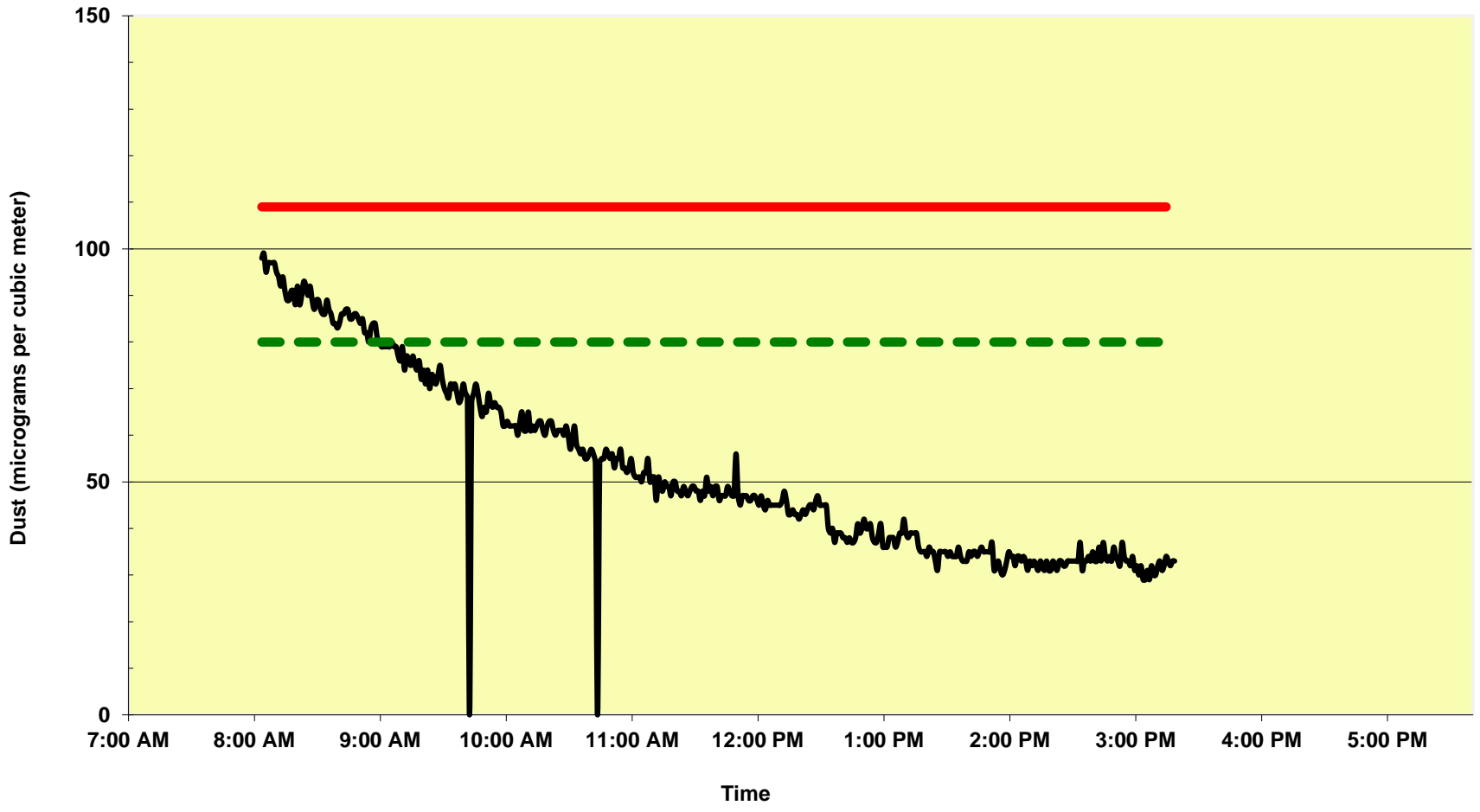
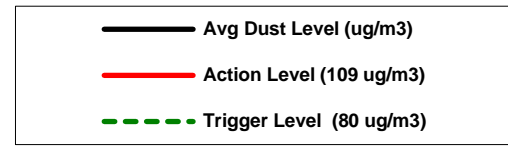
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Highland Park, New Jersey  
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Air Monitor 1 8/28/2018**

Air Monitoring Results



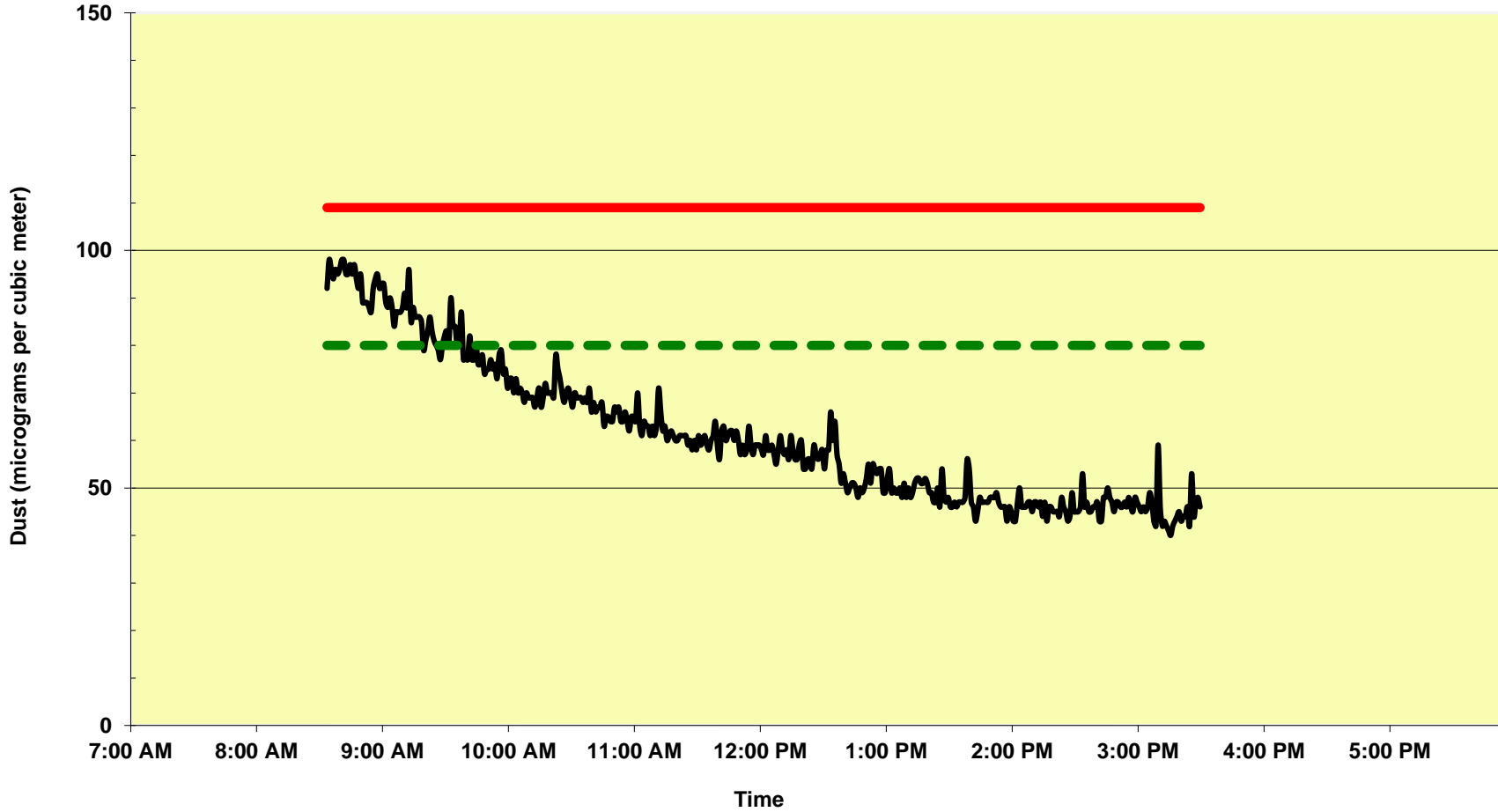
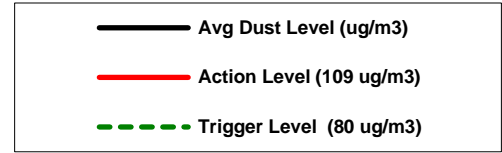
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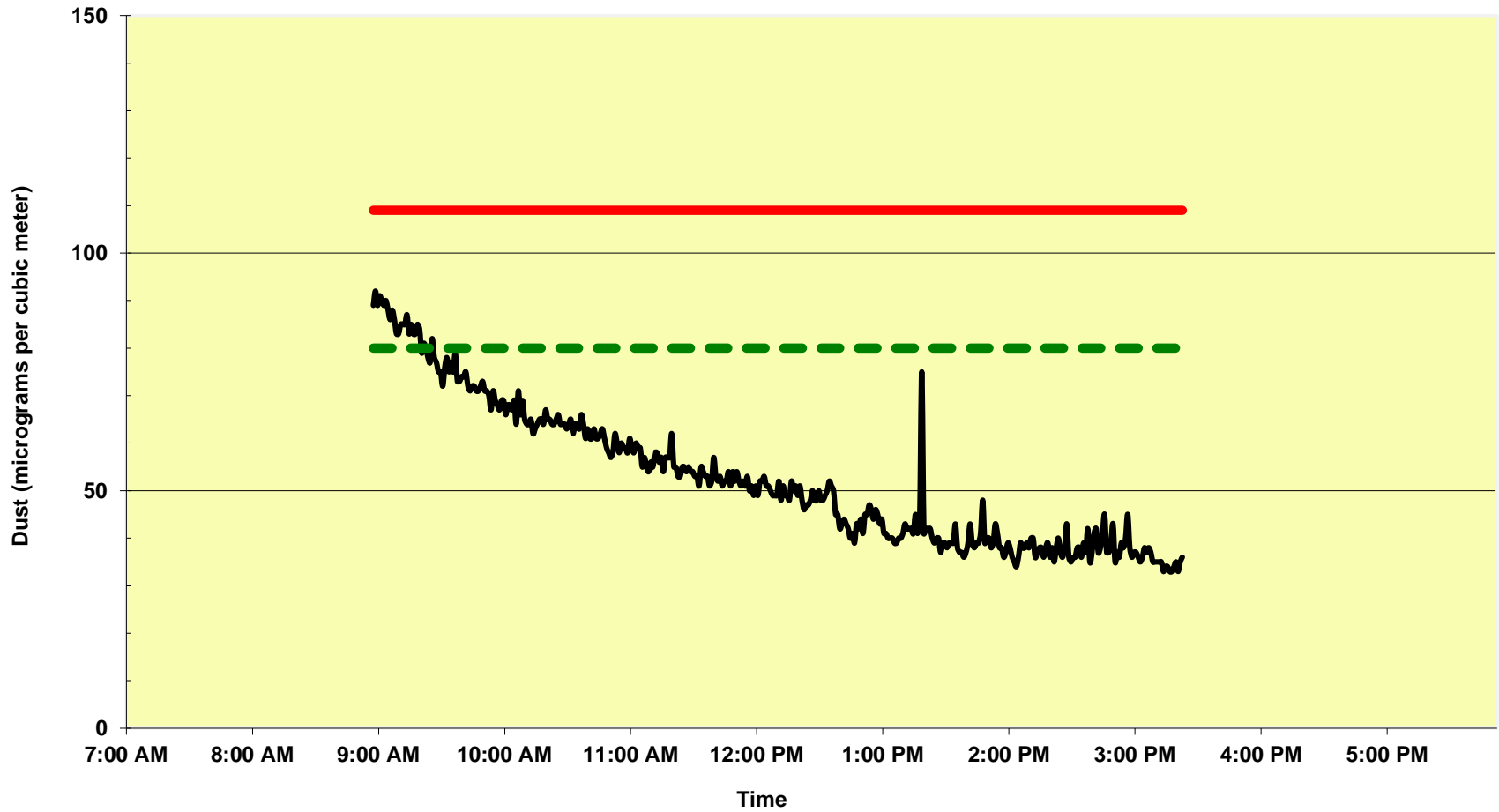
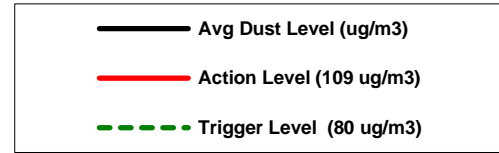
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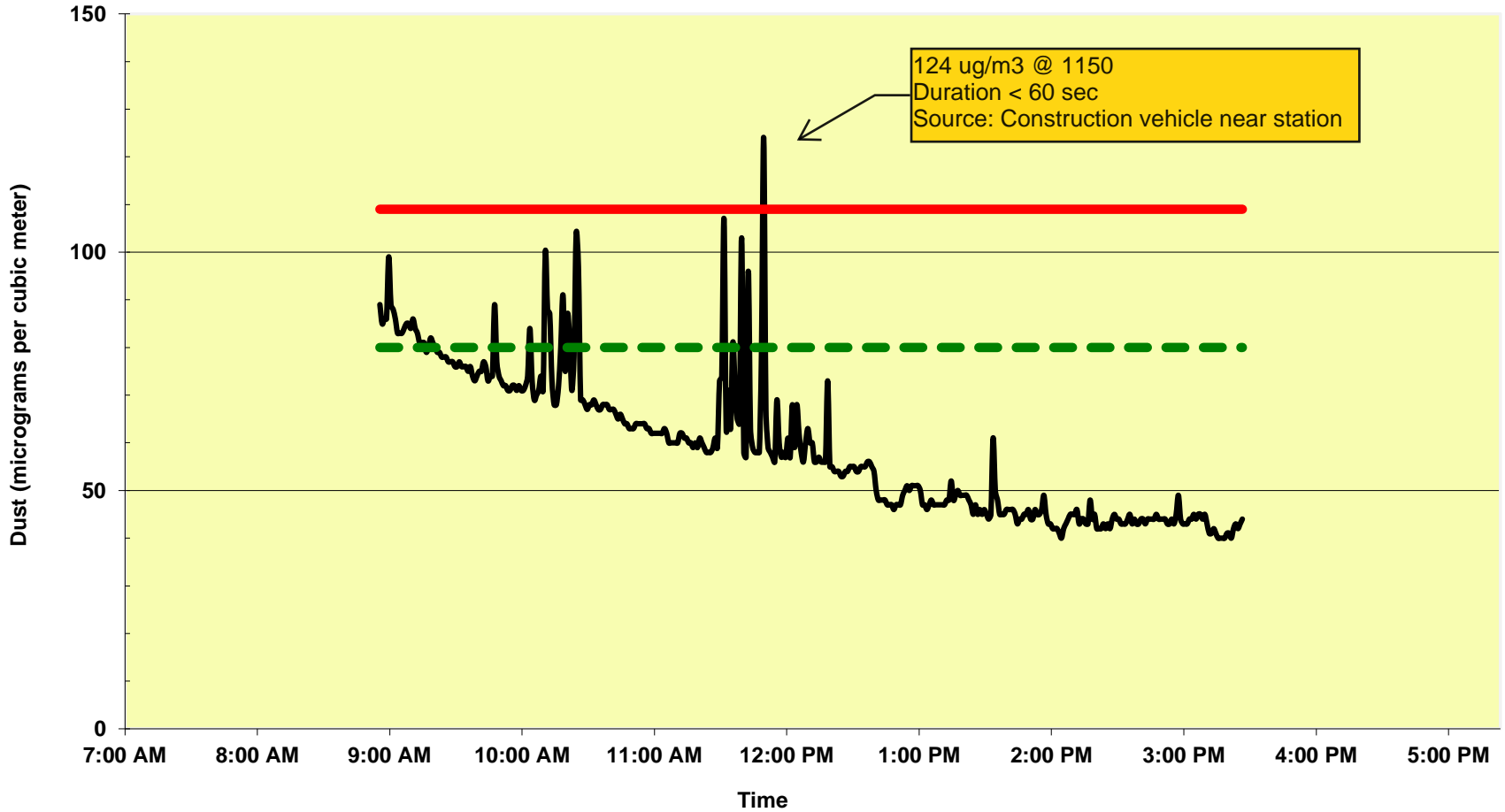
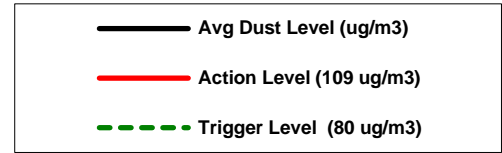
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**Air Monitoring Results**



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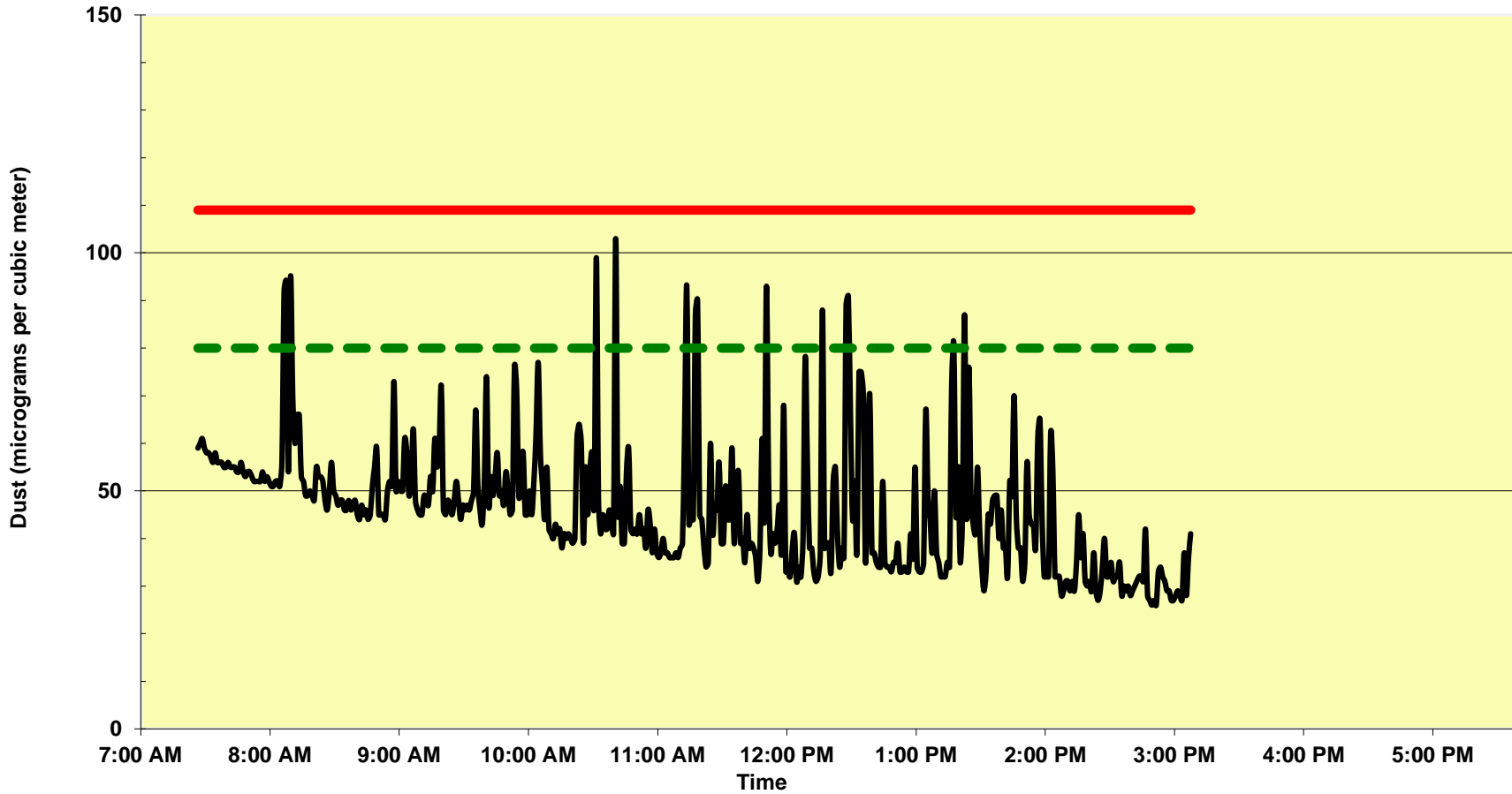
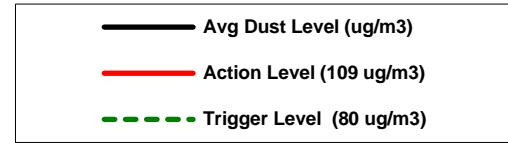
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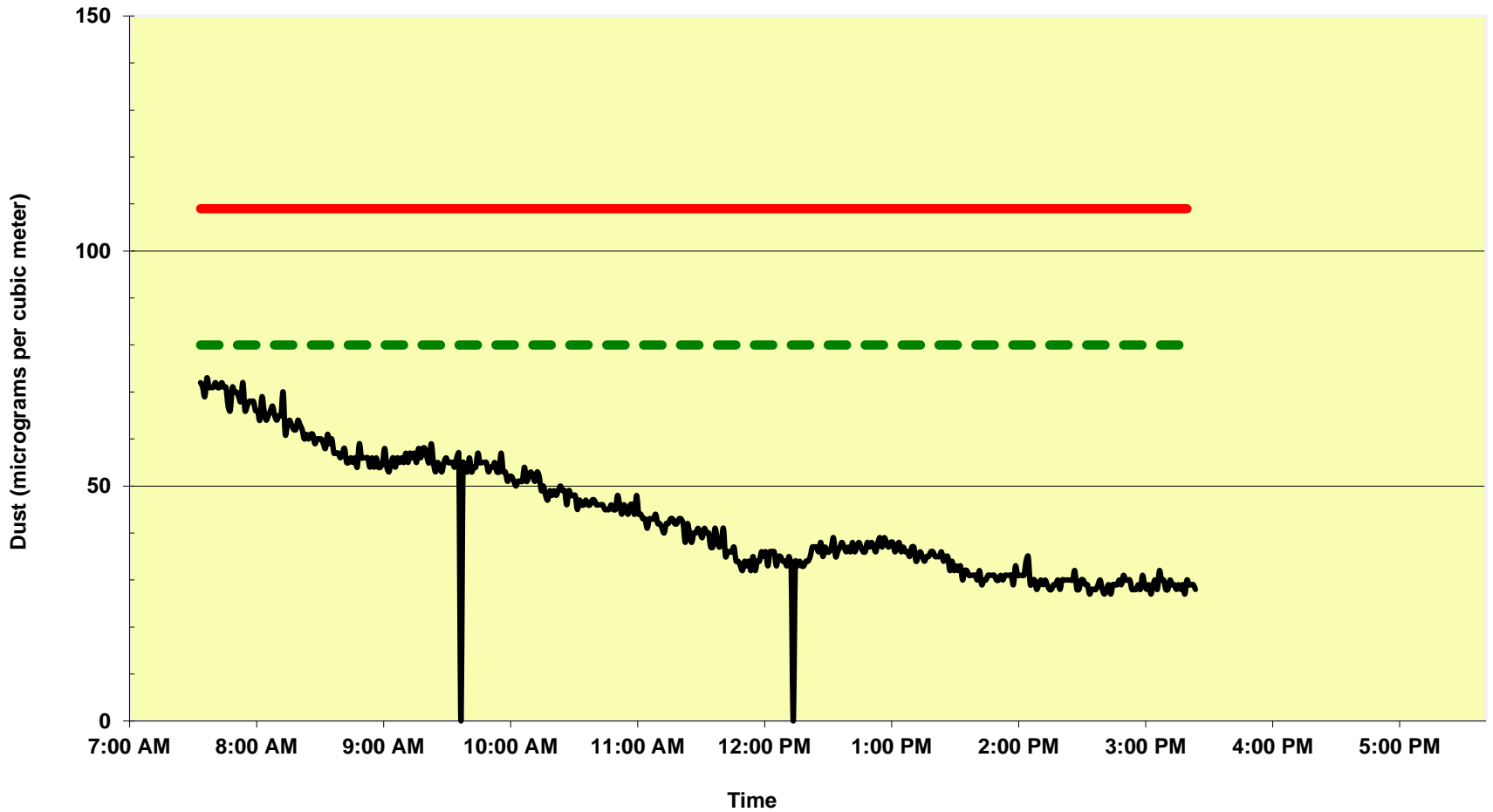
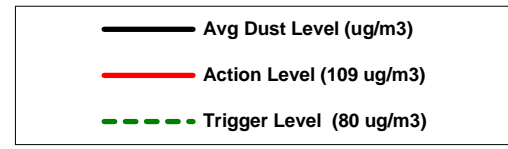
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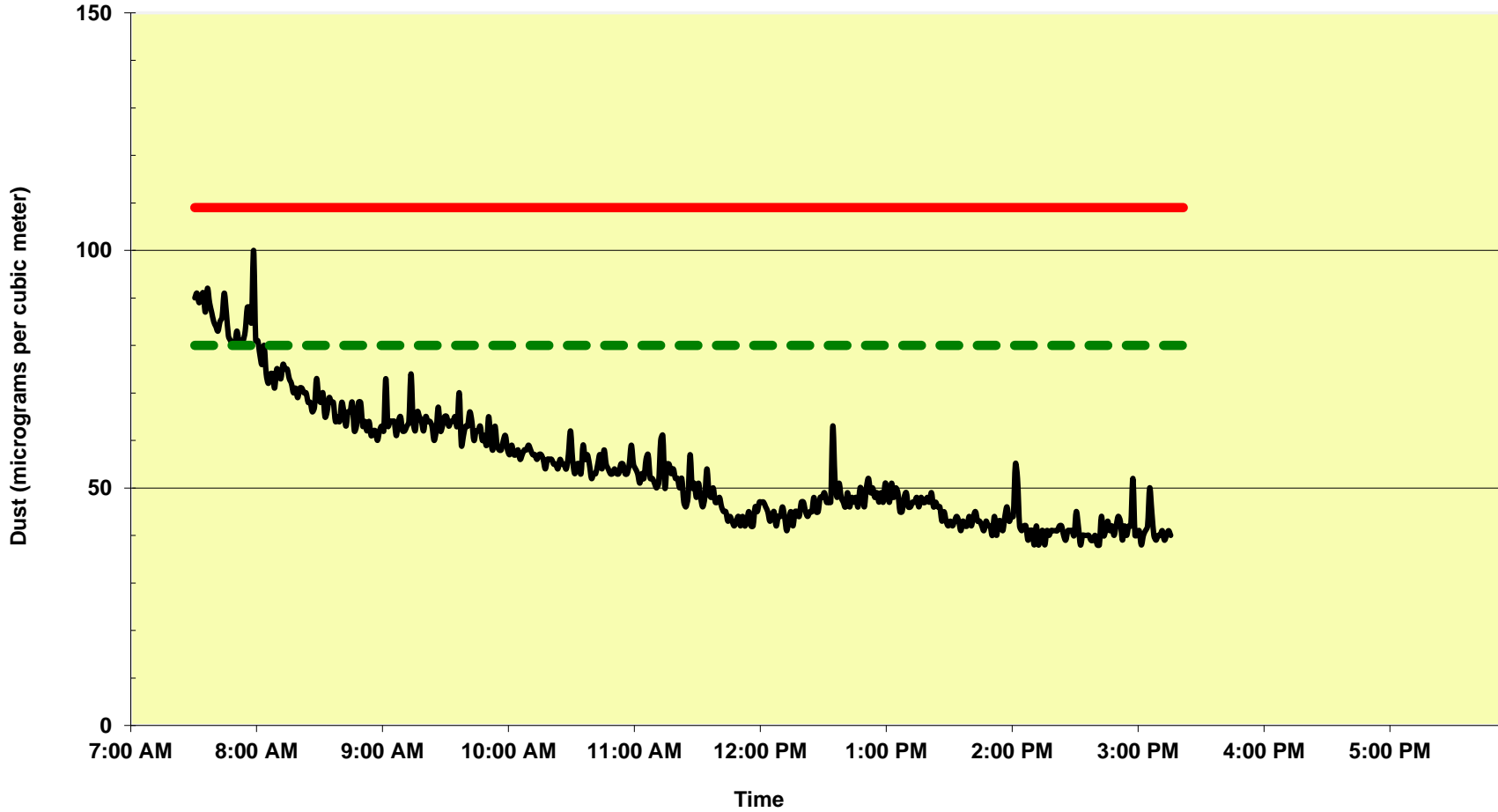
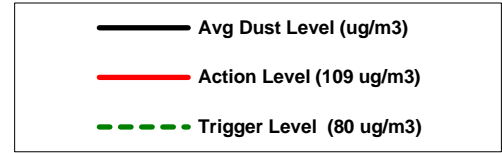
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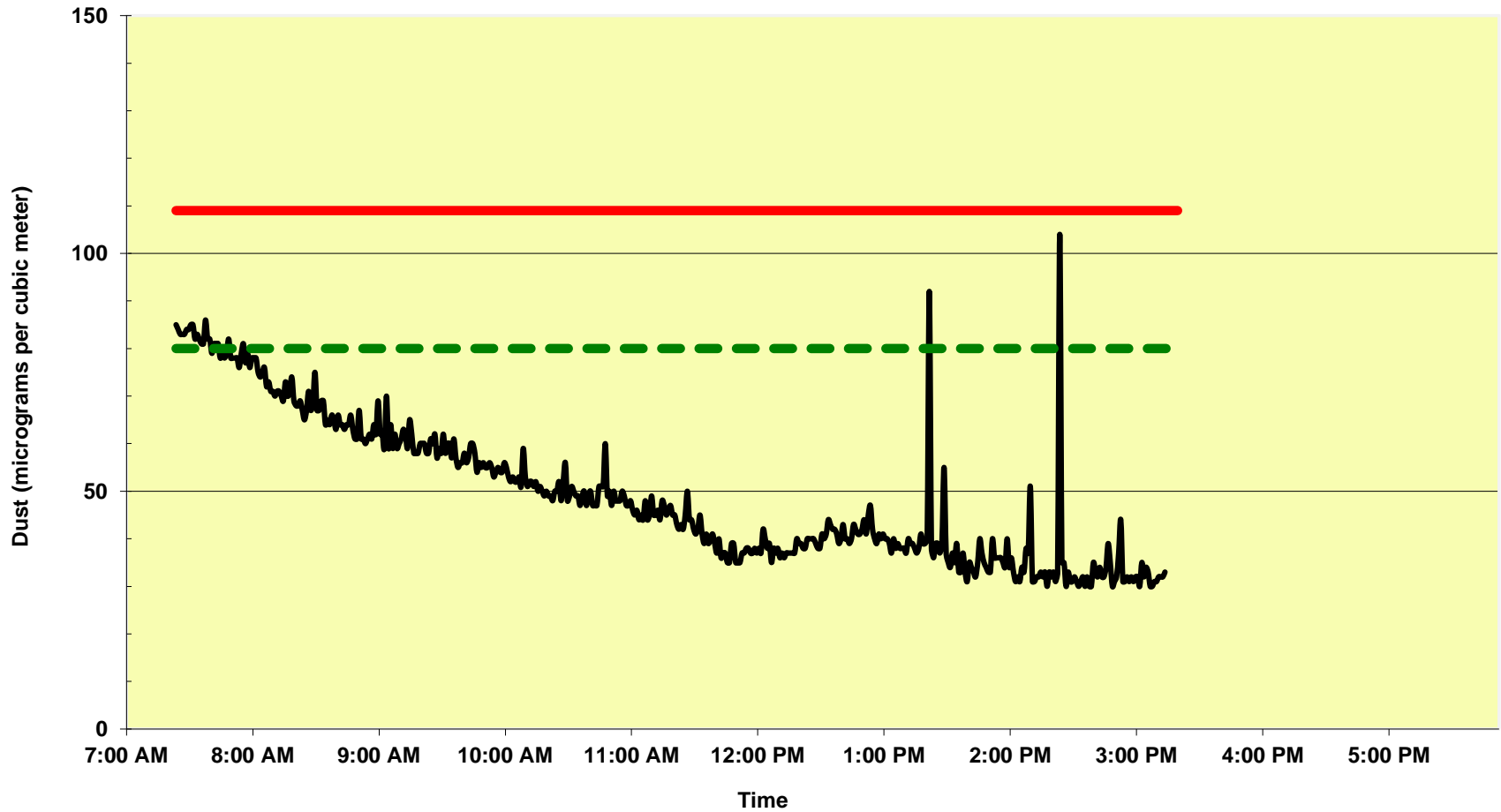
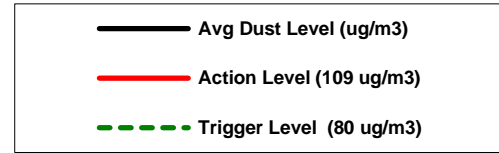
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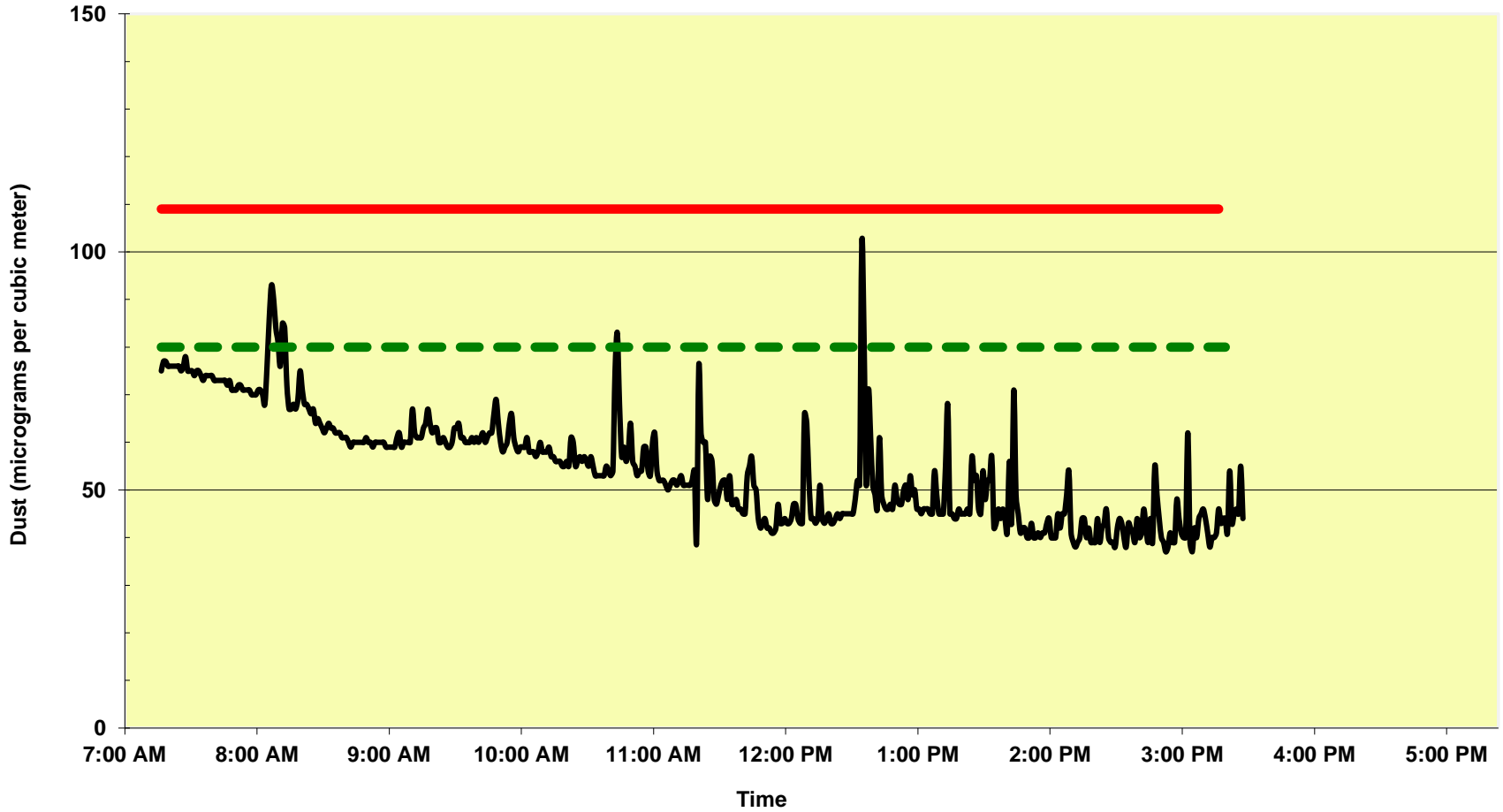
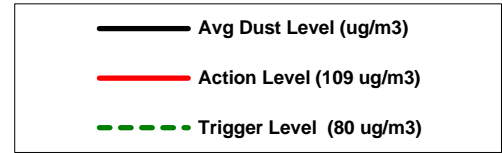
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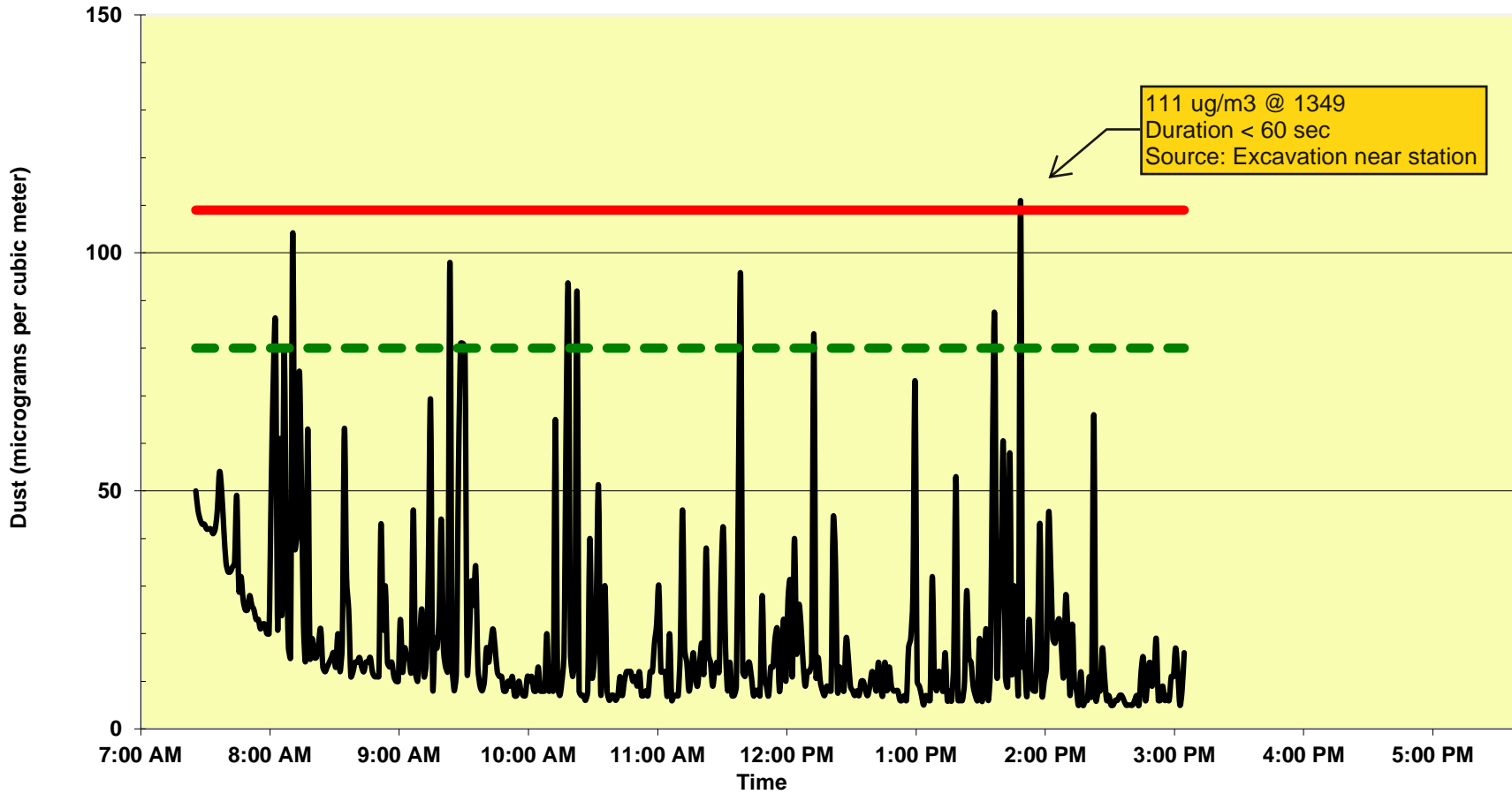
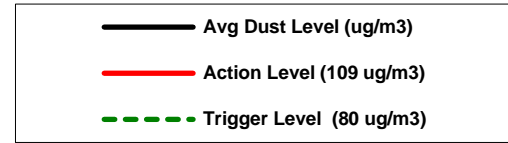
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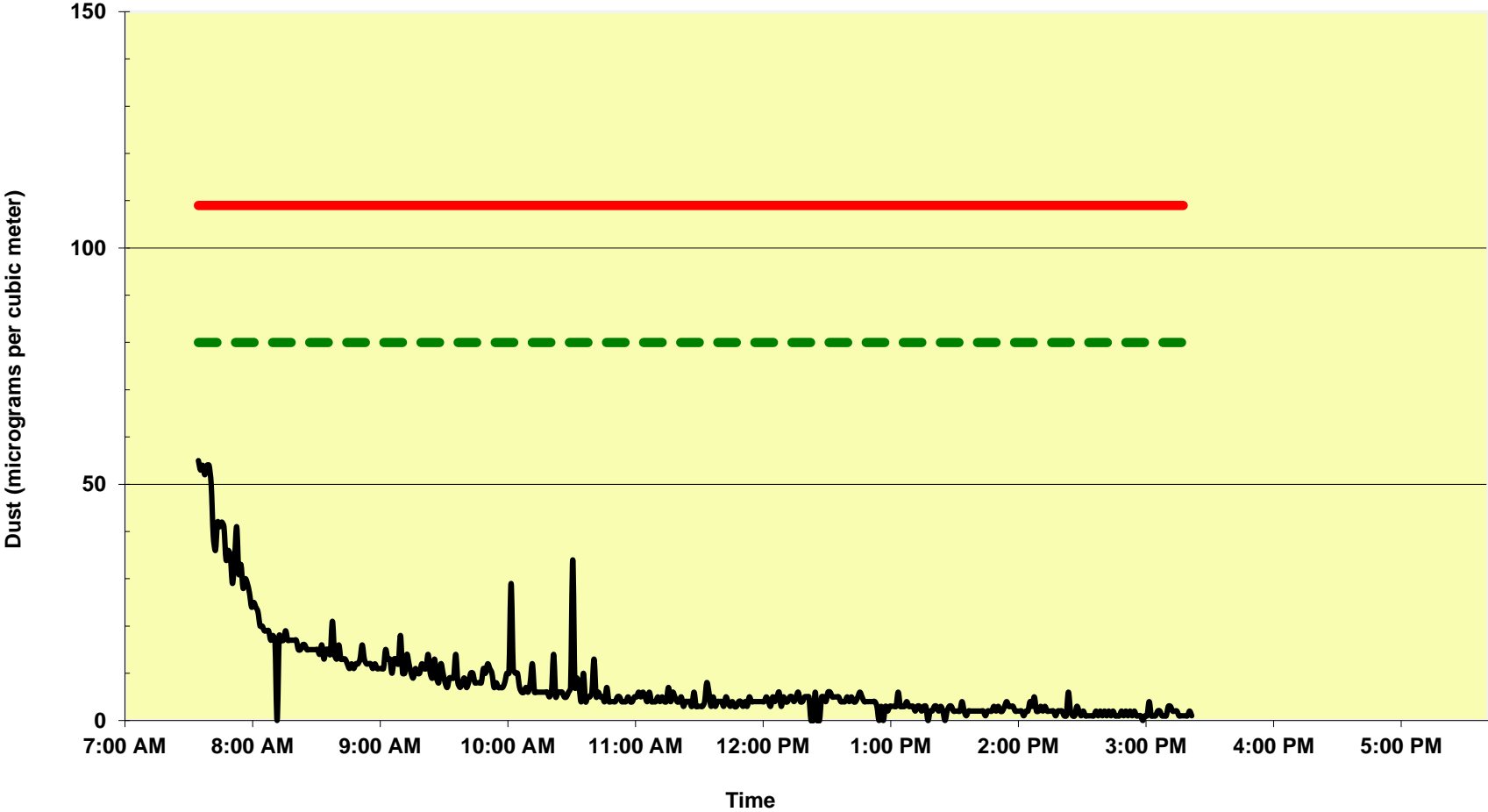
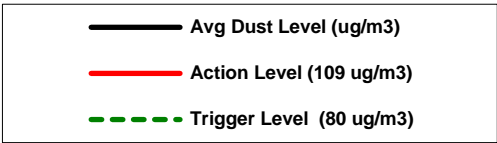
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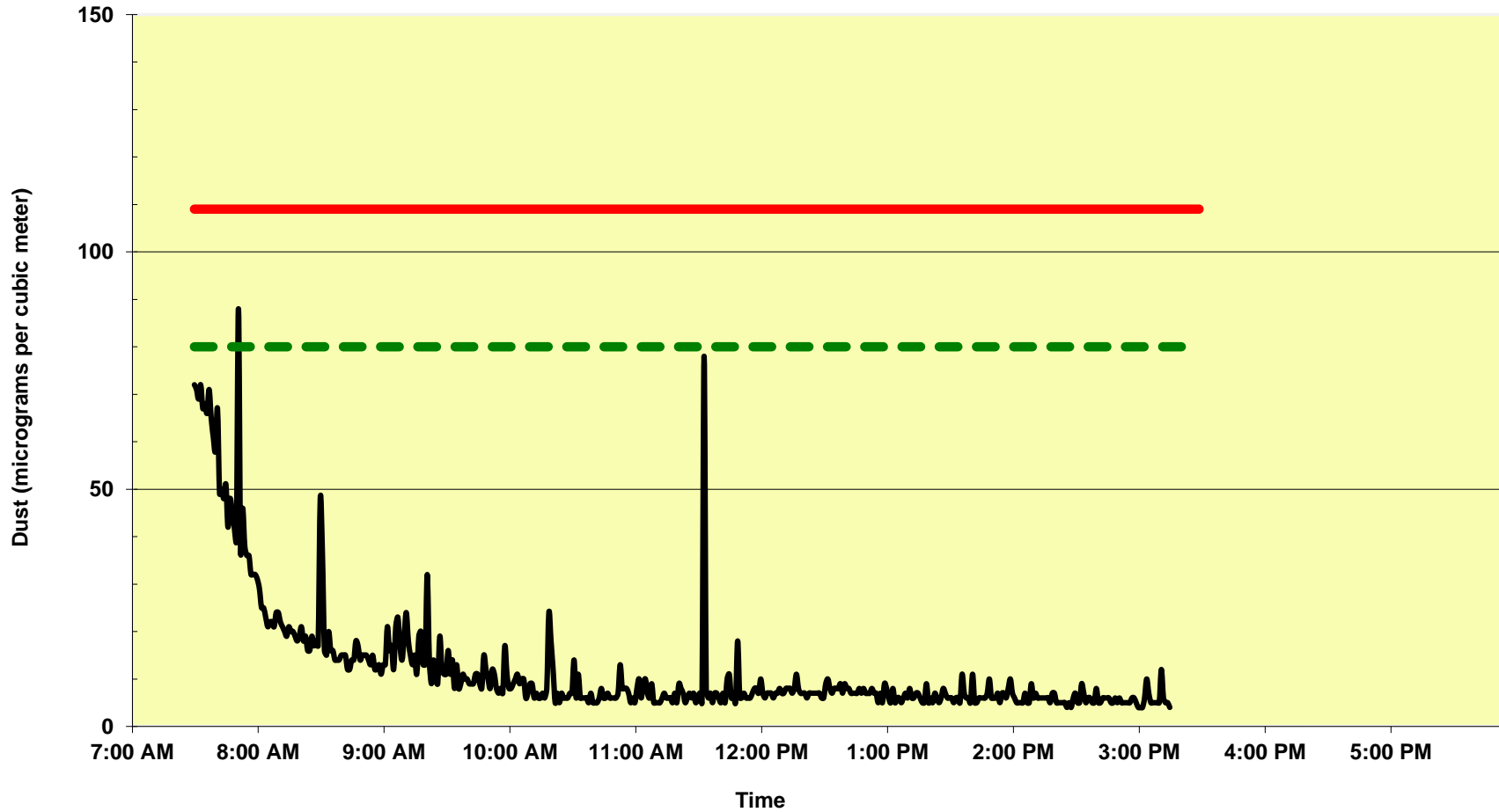
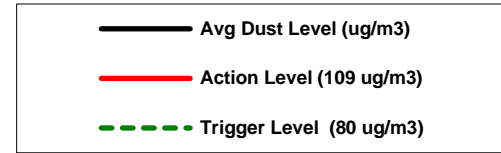
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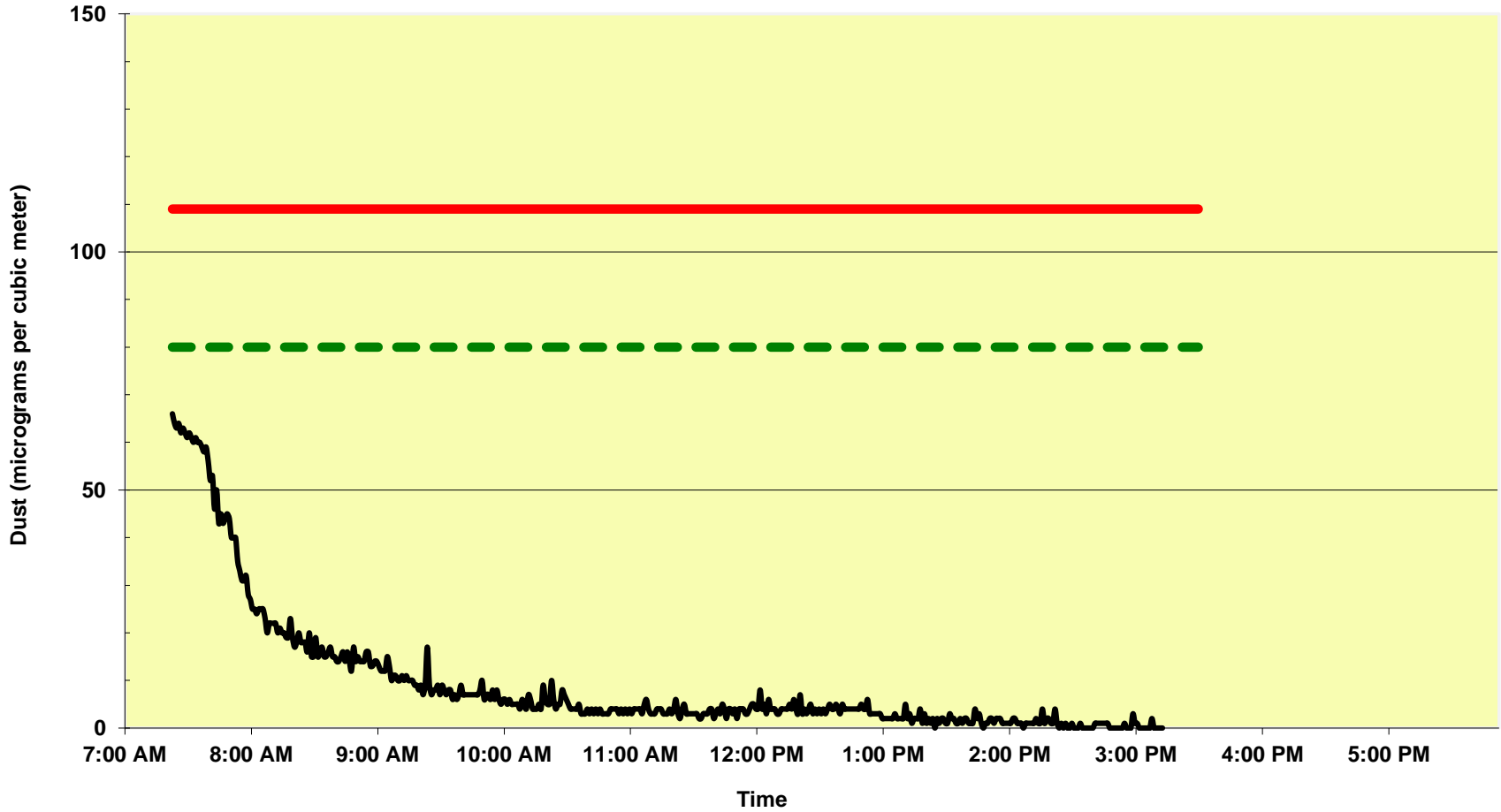
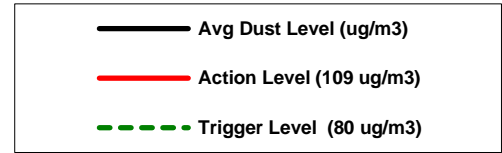
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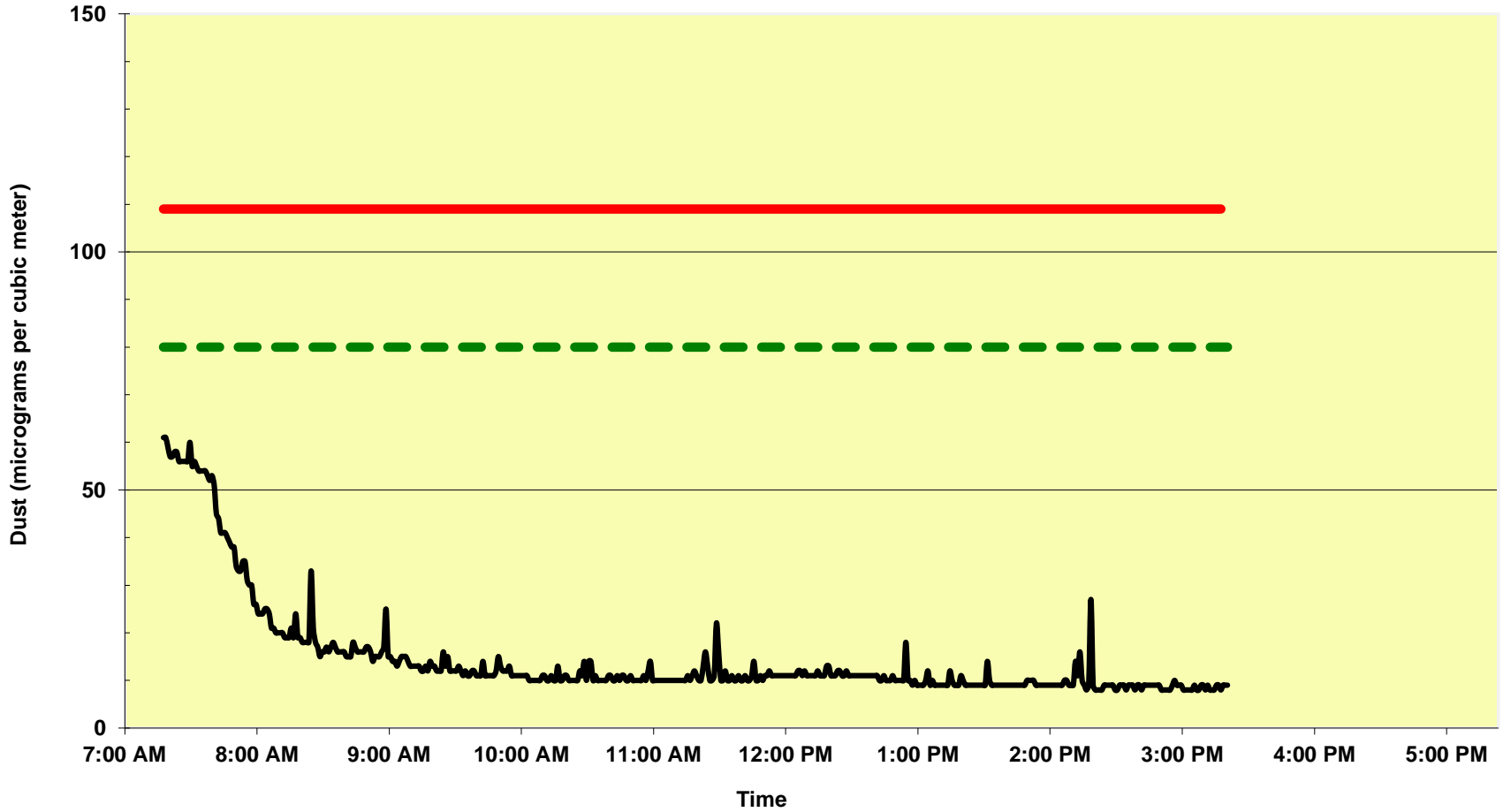
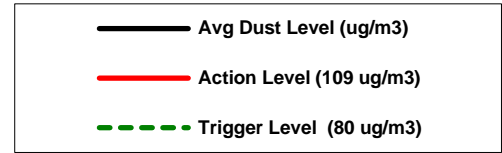
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**Former Midland-Ross Site  
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Air Monitor 5 8/30/2018**

**Air Monitoring Results**



## **LABORATORY AIR SAMPLE RESULTS**

PAMP METALS, PAHs, VOCs SAMPLES ANALYTICAL RESULTS  
 HONEYWELL HIGHLAND PARK  
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45035 AMS- 5-082818 4:00PM	Units	Qualifier
<b>Metals</b>					
Copper	7440-50-8	0.49	0.00033	mg/m3 Filter	U
Lead	7439-92-1	0.00049	0.000067	mg/m3 Filter	U
<b>PAHs</b>					
Anthracene	120-12-7	31	0.027	ug/m3 PUF	U H
Phenanthrene	85-01-8	310	<b>0.096</b>	ug/m3 PUF	H
Pyrene	129-00-0	310	0.027	ug/m3 PUF	U H
Fluoranthene	206-44-0	310	0.027	ug/m3 PUF	U H
Acenaphthylene	208-96-8	310	0.027	ug/m3 PUF	U H
Naphthalene	91-20-3	14.6	<b>0.10</b>	ug/m3 PUF	H
Fluorene	86-73-7	310	<b>0.037</b>	ug/m3 PUF	H
Acenaphthene	83-32-9	310	0.027	ug/m3 PUF	U H
Benzo[a]anthracene	56-55-3	0.3	0.027	ug/m3 PUF	U H
Indeno[1,2,3-cd]pyrene	193-39-5	3.1	0.027	ug/m3 PUF	U H
Dibenz[a,h]anthracene	53-70-3	0.3	0.027	ug/m3 PUF	U H
Benzo[g,h,i]perylene	191-24-2	31	0.027	ug/m3 PUF	U H
Benzo[a]pyrene	50-32-8	3.1	0.027	ug/m3 PUF	U H
Chrysene	218-01-9	31	0.027	ug/m3 PUF	U H
Benzo[b]fluoranthene	205-99-2	3.1	0.027	ug/m3 PUF	U H
Benzo[k]fluoranthene	207-08-9	3.1	0.027	ug/m3 PUF	U H
<b>VOCs</b>					
Ethylbenzene	100-41-4	4867	<b>0.9</b>	ug/m3	
m-Xylene & p-Xylene	179601-23-1	487	<b>3</b>	ug/m3	
Ethylene Dibromide	106-93-4	3.9	2	ug/m3	U
Chlorobenzene	108-90-7	4876	0.9	ug/m3	U
Bromoform	75-25-2	310	2	ug/m3	U
1,1,2,2-Tetrachloroethane	79-34-5	5.9	1	ug/m3	U

PAMP METALS, PAHs, VOCs SAMPLES ANALYTICAL RESULTS  
 HONEYWELL HIGHLAND PARK  
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45035 AMS- 5-082818 4:00PM	Units	Qualifier
o-Xylene	95-47-6	487	1	ug/m3	
Styrene	100-42-5	4867	0.9	ug/m3	U
trans-1,3-Dichloropropene	10061-02-6	-	0.9	ug/m3	U
Toluene	108-88-3	24333	6	ug/m3	
4-Methyl-2-pentanone (MIBK)	108-10-1	14600	2	ug/m3	U
Chlorodibromomethane	124-48-1	12.6	2	ug/m3	U
Tetrachloroethene	127-18-4	195	1	ug/m3	
1,1,2-Trichloroethane	79-00-5	21.3	1	ug/m3	U
1,2,4-Trichlorobenzene	120-82-1	9.7	4	ug/m3	U
Hexachlorobutadiene	87-68-3	15.5	2	ug/m3	U
Ethanol	64-17-5	-	24	ug/m3	
Naphthalene	91-20-3	14.6	3	ug/m3	U
2-Chlorotoluene	95-49-8	-	1	ug/m3	U
4-Ethyltoluene	622-96-8	-	1	ug/m3	U
1,3,5-Trimethylbenzene	108-67-8	-	1	ug/m3	U
1,4-Dichlorobenzene	106-46-7	3893	1	ug/m3	U
1,2-Dichlorobenzene	95-50-1	973	1	ug/m3	U
1,2,4-Trimethylbenzene	95-63-6	-	1	ug/m3	U
1,3-Dichlorobenzene	541-73-1	-	1	ug/m3	U
Carbon disulfide	75-15-0	3407	6	ug/m3	
3-Chloro-1-propene	107-05-1	-	2	ug/m3	U
Isopropyl alcohol	67-63-0	-	12	ug/m3	U
1,1-Dichloroethene	75-35-4	973	0.8	ug/m3	U
Acetone	67-64-1	150867	14	ug/m3	
Methyl tert-butyl ether	1634-04-4	14600	0.7	ug/m3	U
trans-1,2-Dichloroethene	156-60-5	-	0.8	ug/m3	U
2-Methyl-2-propanol	75-65-0	-	15	ug/m3	U

PAMP METALS, PAHs, VOCs SAMPLES ANALYTICAL RESULTS  
 HONEYWELL HIGHLAND PARK  
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45035 AMS- 5-082818 4:00PM	Units	Qualifier
Methylene Chloride	75-09-2	2920	9	ug/m3	
Vinyl chloride	75-01-4	487	0.5	ug/m3	U
Butadiene	106-99-0	-	0.8	ug/m3	
Chloromethane	74-87-3	438	1	ug/m3	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	-	1	ug/m3	U
Dichlorodifluoromethane	75-71-8	487	3	ug/m3	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	146000	2	ug/m3	U
Trichlorofluoromethane	75-69-4	3407	1	ug/m3	
Vinyl bromide	593-60-2	-	0.9	ug/m3	U
Bromomethane	74-83-9	24.3	0.8	ug/m3	U
Chloroethane	75-00-3	48667	1	ug/m3	U
n-Heptane	142-82-5	-	1	ug/m3	
Trichloroethene	79-01-6	9.7	1	ug/m3	U
1,2-Dichloroethane	107-06-2	1947	0.8	ug/m3	U
Benzene	71-43-2	14.6	3	ug/m3	
cis-1,3-Dichloropropene	10061-01-5	97.3	0.9	ug/m3	U
Dichlorobromomethane	75-27-4	9.2	1	ug/m3	U
1,4-Dioxane	123-91-1	146	18	ug/m3	U
1,2-Dichloropropane	78-87-5	19.5	0.9	ug/m3	U
Methyl methacrylate	80-62-6	-	2	ug/m3	U
Isooctane	540-84-1	-	8	ug/m3	
2-Butanone (MEK)	78-93-3	24333	3	ug/m3	
cis-1,2-Dichloroethene	156-59-2	-	0.8	ug/m3	U
Hexane	110-54-3	-	7	ug/m3	
1,1-Dichloroethane	75-34-3	973	0.8	ug/m3	U
Cyclohexane	110-82-7	29200	0.8	ug/m3	
Carbon tetrachloride	56-23-5	195	1	ug/m3	U

PAMP METALS, PAHs, VOCs SAMPLES ANALYTICAL RESULTS  
 HONEYWELL HIGHLAND PARK  
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45035 AMS- 5-082818 4:00PM	Units	Qualifier
1,1,1-Trichloroethane	71-55-6	4867	1	ug/m3	U
Tetrahydrofuran	109-99-9	-	15	ug/m3	U
Chloroform	67-66-3	1460	1	ug/m3	U

U -The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria.

N - The presumptive evidence of a compound.

H - Sample was prepped or analyzed beyond the specified holding time.

\* - LCS or LCSD is outside acceptance limits.

\* - RPD of the LCS and LCSD exceeds the control limits.

The concentration given is an approximate value.

-- No criteria available.

**BOLD:** Analyte detected in sample.

**BOLD:** Exceedance above the NJDEP Division of Air Quality Toxicity Values for Inhalation Exposure, October 2017.